

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Roger Aki FUJIMOTO</td> <td>06/03/2008</td> </tr> <tr> <td>Philipp KRASTEL</td> <td>05/27/2008</td> </tr> <tr> <td>Matthew J. LAMARCHE</td> <td>05/20/2008</td> </tr> </tbody> </table>		Name	Execution Date	Roger Aki FUJIMOTO	06/03/2008	Philipp KRASTEL	05/27/2008	Matthew J. LAMARCHE	05/20/2008		
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Roger Aki FUJIMOTO	06/03/2008										
Philipp KRASTEL	05/27/2008										
Matthew J. LAMARCHE	05/20/2008										
RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Novartis AG</td> </tr> <tr> <td>Street Address:</td> <td>Lichtstrasse 35</td> </tr> <tr> <td>City:</td> <td>Basel</td> </tr> <tr> <td>State/Country:</td> <td>SWITZERLAND</td> </tr> <tr> <td>Postal Code:</td> <td>4056</td> </tr> </table>		Name:	Novartis AG	Street Address:	Lichtstrasse 35	City:	Basel	State/Country:	SWITZERLAND	Postal Code:	4056
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (617)871-3392</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: nibr.maildata@novartis.com</p> <p>Correspondent Name: Katherine Kantorski</p> <p>Address Line 1: Novartis Institutes for BioMedical Resea</p> <p>Address Line 2: 220 Massachusetts Avenue</p> <p>Address Line 4: Cambridge, MASSACHUSETTS 02139</p>											
ATTORNEY DOCKET NUMBER:	PAT052134-US-NP										
NAME OF SUBMITTER:	Katherine Kantorski										
<p>Total Attachments: 10</p> <p>source=Assignment_52134-US-NP#page1.tif</p> <p>source=Assignment_52134-US-NP#page2.tif</p>											

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(joint)

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

Roger Aki FUJIMOTO	citizen of United States Of America	176 Highland Ave. Winchester, MA 01890 USA
Philipp KRASTEL	citizen of Germany	Hauptstrasse 13 79639 Grenzach-Wyhlen Germany
Matthew J. LAMARCHE	citizen of United States Of America	11 Keith Road Reading, MA 01867 US

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (Novartis AG hereinafter referred to collectively as the "ASSIGNEES") in and to (1) all of our inventions and discoveries described in the patent application(s) titled

MACROCYCLES AND THEIR USES

and filed in the United States Patent and Trademark Office on _____, 20____ and accorded Application Number _____* and/or filed in the RO/US on _____ and accorded International Patent Application Number _____ (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on 4 June 2007 and accorded Application Number **60/941777** (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of **ASSIGNEES** or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEES** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made.

we hereby authorize **ASSIGNEES** and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEES** or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in **ASSIGNEES** or their successors, assigns or legal representatives, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of **ASSIGNEES** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of **ASSIGNEES** or their successors, assigns or legal representatives.

Executed this _____ day of _____, 20__.

Roger Aki FUJIMOTO L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20__, personally appeared before me _____ to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this ^K 27 ^X day of MAY, 2008

X Philipp Krastel L.S.
Philipp KRASTEL

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20__, personally appeared before me
_____ to me known and known by me to be the same person described
in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her)
own free will for the purpose set forth.

(Seal)

Notary Public

Executed this _____ day of _____, 20__.

Matthew J. LAMARCHE L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

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_____ to me known and known by me to be the same person described
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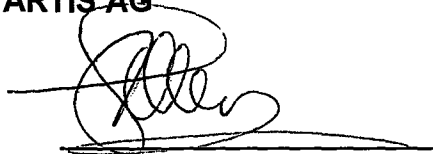
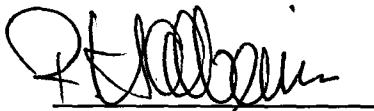
Notary Public

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to **NOVARTIS AG** of an invention entitled "**MACROCYCLES AND THEIR USES**" signed by Roger Aki FUJIMOTO, Philipp KRASTEL, Matthew J. LAMARCHE ; this will certify that **NOVARTIS AG** accepts such Assignment.

NOVARTIS AG

By :



Name :

Reto Halbeisen

Sabine Zeller

Function :

Administrative Expert PS

Administrative Expert PS

Date:

18.06.2008

(joint)

Patent Case 52134

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(joint)

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Executed this 3rd day of June, 2008.

Roger Aki Fujimoto L.S.
Roger Aki FUJIMOTO

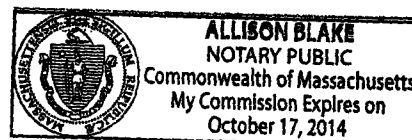
ACKNOWLEDGEMENT

State of MASSACHUSETTS)
) s.s.:
County of MIDDLESEX)

On this 3RD day of JUNE, 2008, personally appeared before me ROGER AKI FUJIMOTO to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Allison Blake
Notary Public



Executed this _____ day of _____, 20__.

Philip KRASTEL L.S.

ACKNOWLEDGEMENT

State of _____)
) s.s.:
County of _____)

On this _____ day of _____, 20__, personally appeared before me _____ to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)

Notary Public

Executed this 20th day of May, 2008.

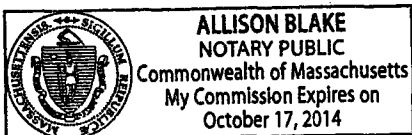
Matthew J. Lamarche L.S.
Matthew J. LAMARCHE

ACKNOWLEDGEMENT

State of MASSACHUSETTS)
) s.s.:
County of MIDDLESEX)

On this 20th day of MAY, 2008, personally appeared before me MATTHEW J. LAMARCHE to me known and known by me to be the same person described in and who executed the foregoing Assignment and acknowledged that (s)he executed the same of his (her) own free will for the purpose set forth.

(Seal)



Allison Blake
Notary Public

ACCEPTANCE OF ASSIGNMENT

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NOVARTIS AG

By :

Name :

Reto Halbeisen

Function :

Administrative Expert PS

Date:

18.06.2008

Sabine Zeller

Administrative Expert PS

Attestation

I, the undersigned notary public of Basel, Switzerland, Dr. Matthias Staehelin, certify herewith the authenticity of the signatures of **Dr. Philipp Krastel**, German citizen, residing in Grenzach-Wyhlen, Germany; of **Mr. Roger Aki Fujimoto**, US citizen, residing in Winchester, Massachusetts, United States; and of **Mr. Matthew J. Lamarche**, US citizen, residing in Reading, Massachusetts, United States.

I further certify that the above signatures are the genuine signatures of **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, Switzerland, and **Mr. Reto Halbeisen**, citizen of Wahlen/BL, Switzerland, residing in Laufen/BL, Switzerland, both acting for **Novartis AG**, in Basel, Switzerland, both as proxy holders, both with joint signature.

The authenticity of the signatures was established by comparison.

BASEL, Switzerland, this 23rd (twenty-third) day of June 2008 (twothousandandeight)

M. Staehelin, Notar



Dr. M. Staehelin
Notar

Leg.Prot.Nr. 1429 /2008

FOR CERTIFIED COPY

I, the undersigned, Dr. Matthias Staehelin, Civil Law Notary hereby certify that the document attached heretofore is a true and authentic photocopy of the original.

BASEL (SWITZERLAND), this 23rd (twenty-third) day of June 2008 (twothousandandeight)

M. Staehelin, Notar

Dr. M. Staehelin
Notar

Leg. Prot. 14492008